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BASE LINE DATA
REPUBLIC OF KOREA AND AREAS SERVED
BY SOONG JUN UNIVERSITY

Compiled by
Industrial Development Division
Engineering Experiment Station

GEORGIA INSTITUTE OF TECHNOLOGY
Atlanta, Georgia 30332

January 1975

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BACKGROUND AND INTRODUCTION

Republic of Korea

The Republic of Korea (ROK), with a land area of approximately 34,427 square miles (about the size of Indiana), has a population in excess of 33 million. The capital city of Seoul has over six million inhabitants.

Recovery from the civil war of the 1950's was slow until the mid 1960's. Since 1965, the annual growth of the gross national product (GNP) is considered to be one of the highest in the world. Estimates for growth of GNP for the year of 1973 range from 13% to 17%. This rapid growth, however, has not been uniform throughout all sectors of Korea, leaving some pockets of under-industrialization and high unemployment.

Soong Jun University

Soong Sil College was founded in Pyeng Yang, Korea, in 1912. It was closed for political reasons in 1938 and reopened in Seoul in 1954.

In 1970, Soong Sil merged with the Taejon Presbyterian College, founded in 1946 by the Southern Presbyterian Mission, and became Soong Jun University. Campuses of the university are now located in Seoul (enrollment of approximately 1,500) and in Taejon (enrollment of slightly more than 650).

To better serve the needs of the nation and to get technology to the point of practical application, it was decided in 1972 to form on each campus an industrial development assistance program to concentrate on the less developed pockets in the areas near the two campuses.

Industrial Development Assistance

Dr. Hahn Been Lee, president of Soong Jun University, heads the Integrated Development Center (IDC) at Seoul and the Regional Development Institute (RDI) at Taejon. The operating heads, who are full-time faculty on campus, are Dr. Yoon Bae Ouh at Seoul and Mr. Byong Hae Lee at Taejon. They are assisted by a committee, also full-time faculty, on each campus.

The criteria used for selection of the assistance areas were the following:

- o Underdeveloped
- o Low income region
- o Under-industrialized
- o High unemployment

The areas near the two campuses that best fit these criteria were Yeong Deung Po and Kwanak, south of Seoul, and Yun Kee Kun and Tae Duck Kun, surrounding and to the north of the city of Taejon. (See Map 1.)

It was further decided the assistance provided should be concentrated on small-scale industries, which was described by Soong Jun University as employment of 200 or less and capitalization of up to \$125,000.

The nature of the assistance to be provided by Soong Jun University to the participants will be concerned primarily with, but not necessarily restricted to the following:

- o Research and gathering of pertinent data
- o Seminars and specialized forums
- o Industry-University interchange and building of relations
- o Industrial extension services providing technical and managerial assistance
- o Industrial training and education

Introduction to Base Line Data

The three sections that follow consist basically of the compilation of selected base line data on a national and regional basis. Section A covers data for the Republic of Korea, Section B covers the Yeong Deung Po area near the Seoul campus, and Section C covers the area near the Taejon campus.

Perhaps the most significant data are those relating to the various types of manufacturing operations found in the republic and particularly in the specific areas to be served by Soong Jun University. To the extent available, these data include by employment size the number of establishments, number of workers, monthly average income, gross output, and value added for each subgroup of manufacturing activity. Additional data are given on population, employment, and land area for certain of the geographic units involved.

The primary sources of the information in the following sections are the annual publications of the national government, such as 1972 Statistical Year Books for the Republic of Korea, Seoul, and the Province of Chung Nam (Taejon). Similar data will be compiled at the end of the project for comparison and evaluation. In addition, comparable data will be gathered on each industry or group of industries which Soong Jun University assists.

MAP 1
SMALL INDUSTRY STUDY AREAS
SOONG JUN UNIVERSITY



Section A
BASE LINE DATA: REPUBLIC OF KOREA

- Table A-1. Population and Employment, Republic of Korea, 1972
Table A-2. Basic Manufacturing Data, Republic of Korea, 1971

Table A-1
POPULATION AND EMPLOYMENT, REPUBLIC OF KOREA, 1972

<u>Category</u>	<u>Number (000)</u>
Total estimated population	32,360
Male	15,985
Female	16,260
Population 14 years and over	18,764
Economically active	10,500
Employed	10,026
Agriculture, forestry, fishing	5,078
Mining and quarrying	51
Manufacturing	1,372
Construction	371
Transportation, storage, communication	344
Social overhead, capital, and other services	2,810
Unemployed	474
Economically not active	8,264

Table A-2
BASIC MANUFACTURING DATA, REPUBLIC OF KOREA, 1971

ISIC*	Subgroup and Size	No. of Establishments	No. of Workers	Gross Output (000 Won)	Value Added (000 Won)
3	MANUFACTURING	23,412	848,194	1,672,740,326	690,534,615
	5 - 9 workers	12,977	80,729	54,521,105	25,705,363
	10 - 19	5,155	68,410	58,243,638	24,697,819
	20 - 49	2,913	87,229	94,321,347	38,196,063
	50 - 99	988	68,054	114,401,186	47,473,968
	100 - 199	617	87,396	141,365,389	57,152,227
	200 - 499	506	154,301	345,668,897	127,380,752
	500 workers or more	256	302,075	864,218,764	369,928,423
31	MANUFACTURE OF FOOD, BEVERAGES, AND TOBACCO	5,011	114,806	265,147,588	170,213,217
	5 - 9	3,266	19,945	14,070,555	6,925,080
	10 - 19	1,037	13,345	13,555,672	6,154,946
	20 - 49	432	12,599	23,232,500	9,905,199
	50 - 99	125	8,677	30,327,073	9,052,881
	100 - 199	71	9,835	43,331,258	15,407,429
	200 - 499	52	15,789	62,051,080	17,593,106
	500 workers or more	28	34,656	178,579,450	105,114,576
311	Food manufacturing	3,348	72,578	193,339,854	60,638,319
	5 - 9	2,127	12,688	6,360,942	3,052,064
	10 - 19	696	9,035	6,901,992	2,814,252
	20 - 49	334	9,725	13,890,231	4,500,003
	50 - 99	95	6,527	24,123,384	6,309,106
	100 - 199	50	6,917	34,680,480	11,679,540
	200 - 499	32	9,806	50,778,474	13,053,786
	500 workers or more	14	17,880	46,604,351	19,229,568
313	Beverage industries	1,660	27,889	93,740,281	54,560,988
	5 - 9	1,139	7,257	7,709,613	3,873,016
	10 - 19	341	4,310	6,653,680	3,340,694
	20 - 49	93	2,834	9,342,260	5,405,196
	50 - 99	27	1,920	6,203,689	2,743,775
	100 - 199	17	2,245	6,650,778	3,787,889
	200 - 499	12	3,446	11,272,606	4,539,320
	500 workers or more	6	5,877	43,907,646	30,871,098

* International Standard Industrial Classification

Table A-2 (continued)

ISIC	Subgroup and Size	No. of Establish- ments	No. of Workers	Gross Output (000 Won)	Value Added (000 Won)
314	Tobacco manufactures	23	14,339	78,067,453	55,013,910
	5 - 9 workers				
	10 - 19				
	20 - 49				
	50 - 99	3	230	-	-
	100 - 199	4	673	-	-
	200 - 499	8	2,537	-	-
	500 workers or more	8	10,899	78,067,453	55,013,910
32	TEXTILE, WEARING APPAREL, AND LEATHER INDUSTRIES	6,287	274,734	333,830,930	120,803,827
	5 - 9	3,325	20,203	12,680,057	6,201,083
	10 - 19	1,310	17,756	13,871,052	5,335,154
	20 - 49	866	25,573	20,884,069	7,538,994
	50 - 99	285	20,207	17,824,734	7,686,403
	100 - 199	236	34,314	27,782,132	11,848,815
	200 - 499	193	57,845	67,909,843	24,287,809
	500 workers or more	72	98,831	172,879,043	57,905,569
321	Manufacture of textiles	2,696	202,660	261,801,752	94,466,805
	5 - 9	614	4,084	2,304,264	958,170
	10 - 19	753	10,508	8,776,673	2,891,275
	20 - 49	703	21,252	17,603,670	6,302,052
	50 - 99	243	17,290	14,996,098	6,492,562
	100 - 199	190	27,401	23,499,312	9,959,618
	200 - 499	143	42,298	53,197,843	18,472,784
	500 workers or more	51	79,827	141,424,192	49,390,344
322	Manufacture of wearing apparel, except footwear	3,169	63,135	62,427,606	22,864,552
	5 - 9	2,389	14,335	9,276,074	4,707,037
	10 - 19	514	6,660	4,633,025	2,271,609
	20 - 49	132	3,385	2,323,637	990,353
	50 - 99	32	2,212	1,986,051	869,018
	100 - 199	37	5,647	2,938,094	1,293,184
	200 - 499	47	14,627	13,164,203	5,302,158
	500 workers or more	18	16,269	28,106,522	7,431,193

(continued)

Table A-2 (continued)

ISIC	Subgroup and Size	No. of Establish- ments	No. of Workers	Gross Output (000 Won)	Value Added (000 Won)
323	Manufacture of leather and products of leather, leather substitutes, and fur, except footwear and wearing apparel	88	2,996	4,020,477	1,393,296
	5 - 9 workers	32	205	183,328	65,278
	10 - 19	20	286	248,729	83,488
	20 - 49	23	717	779,957	166,702
	50 - 99	6	411	568,575	215,327
	100 - 199	5	773	943,106	425,027
	200 - 499	2	604	1,296,782	437,475
	500 workers or more	-	-	-	-
324	Manufacture of footwear, except vulcanized or moulded rubber or plastic footwear	334	5,943	5,581,095	2,079,174
	5 - 9	290	1,579	915,691	470,598
	10 - 19	23	302	212,625	68,782
	20 - 49	9	224	177,805	79,887
	50 - 99	4	294	274,010	109,496
	100 - 199	4	493	401,620	170,987
	200 - 499	1	316	251,015	75,392
	500 workers or more	3	2,735	3,346,329	1,084,032
33	MANUFACTURE OF WOOD AND WOOD PRODUCTS, INCLUDING FURNITURE	2,023	41,660	96,926,059	31,697,471
	5 - 9	1,459	9,185	8,196,696	3,440,204
	10 - 19	417	5,281	5,421,597	2,164,718
	20 - 49	95	2,744	3,237,108	1,220,391
	50 - 99	23	1,387	3,013,398	728,457
	100 - 199	9	1,207	2,278,621	1,181,950
	200 - 499	8	2,510	7,027,142	1,950,760
	500 workers or more	11	19,346	67,751,497	21,010,991
331	Manufacture of wood and cork products, except furniture	1,107	32,931	92,240,153	29,348,216
	5-9	736	4,779	6,057,453	2,318,135
	10 - 19	264	3,889	4,266,423	1,585,442
	20 - 49	65	1,907	2,882,991	1,052,096
	50 - 99	18	1,100	2,773,076	607,707
	100 - 199	8	1,070	2,178,959	1,112,104

(continued)

Table A-2 (continued)

ISIC	Subgroup and Size	No. of Establishments	No. of Workers	Gross Output (000 Won)	Value Added (000 Won)
331	Manufacture of wood and cork products, except furniture (continued)				
	200 - 499 workers	4	1,440	6,329,754	1,659,741
	500 workers or more	12	19,346	67,751,497	21,010,991
332	Manufacture of furniture and fixtures, except primarily of metal	916	8,729	4,685,906	2,349,255
	5 - 9	723	4,406	2,139,243	1,122,069
	10 - 19	154	1,992	1,155,174	579,276
	20 - 49	30	637	354,117	168,295
	50 - 99	5	287	240,322	118,750
	100 - 199	1	137	99,662	69,846
	200 - 499	4	1,070	697,388	291,019
	500 workers or more	-	-	-	-
34	MANUFACTURE OF PAPER AND PAPER PRODUCTS, PRINTING AND PUBLISHING	1,732	51,461	88,058,248	38,900,201
	5 - 9	956	6,008	3,393,548	1,791,563
	10 - 19	391	5,119	4,298,075	1,965,017
	20 - 49	202	6,202	6,170,904	2,925,567
	50 - 99	81	5,511	5,620,799	2,093,237
	100 - 199	47	6,543	13,003,288	4,980,910
	200 - 499	43	13,219	32,827,235	12,935,972
	500 workers or more	12	8,859	22,744,399	12,207,845
341	Manufacture of paper and paper products	557	20,403	50,666,021	16,612,109
	5 - 9	224	1,473	505,052	224,965
	10 - 19	138	1,802	1,225,584	483,062
	20 - 49	98	3,103	2,895,094	988,385
	50 - 99	50	3,311	3,984,463	1,198,186
	100 - 199	23	3,247	8,919,451	2,637,077
	200 - 499	22	6,284	25,369,339	9,666,664
	500 workers or more	2	1,176	7,767,038	2,412,870
342	Printing, publishing, and allied industries	1,175	31,058	37,392,227	22,288,092
	5 - 9	732	1,535	2,888,496	1,566,598
	10 - 19	253	3,310	3,072,491	1,481,955
	20 - 49	104	3,099	3,275,810	1,937,182

(continued)

Table A-2 (continued)

ISIC	Subgroup and Size	No. of Establish- ments	No. of Workers	Gross Output (000 Won)	Value Added (000 Won)
342	Printing, publishing, and allied industries (continued)				
	50 - 99 workers	31	2,200	1,636,336	895,111
	100 - 199	24	3,296	4,083,837	2,342,963
	200 - 499	21	6,935	7,457,896	4,269,308
	500 workers or more	10	7,683	14,977,361	9,794,975
35	MANUFACTURE OF CHEMICALS AND CHEMICAL, PETROLEUM, COAL, RUBBER, AND PLAS- TIC PRODUCTS	1,542	104,298	360,952,041	162,305,242
	5 - 9	625	4,181	5,047,814	1,709,412
	10 - 19	398	5,259	7,424,172	2,582,695
	20 - 49	264	8,046	14,672,650	4,753,086
	50 - 99	92	6,123	17,430,451	6,360,018
	100 - 199	63	9,096	23,880,481	10,534,295
	200 - 499	53	16,349	103,114,551	40,888,812
	500 workers or more	47	55,244	209,381,922	95,476,924
351	Manufacture of indus- trial chemicals	229	25,721	89,252,165	40,571,566
	5 - 9	50	331	337,811	133,259
	10 - 19	67	969	1,045,612	452,983
	20 - 49	46	1,452	2,390,726	830,265
	50 - 99	23	1,629	2,620,102	941,533
	100 - 199	12	1,697	4,431,825	1,555,436
	200 - 499	15	4,661	14,424,000	5,733,942
	500 workers or more	16	15,032	64,002,089	30,923,143
352	Manufacture of other chemical products	394	23,502	62,831,349	32,244,230
	5 - 9	129	863	881,794	328,906
	10 - 19	103	1,367	1,629,889	613,207
	20 - 49	78	2,334	2,549,567	1,034,441
	50 - 99	32	2,158	3,873,628	1,762,989
	100 - 199	22	3,200	5,258,553	2,895,382
	200 - 499	22	7,010	23,194,129	11,295,981
	500 workers or more	8	6,570	25,443,789	14,313,324
353	Petroleum refineries	25	3,372	129,636,873	56,381,938
	5 - 9	6	40	73,829	28,925
	10 - 19	3	40	32,313	18,651
	20 - 49	4	138	278,926	63,699

(continued)

Table A-2 (continued)

ISIC	Subgroup and Size	No. of Establish- ments	No. of Workers	Gross Output (000 Won)	Value Added (000 Won)
353	Petroleum refineries (continued)				
	50 - 99 workers	6	352	2,079,650	799,974
	100 - 199	-	-	-	-
	200 - 499	4	1,127	55,040,659	21,499,093
	500 workers or more	2	1,375	72,130,996	33,971,596
354	Manufacture of miscel- laneous products of petroleum and coal	603	10,979	40,172,186	12,323,039
	5 - 9	348			
	10 - 19	155	1,932	3,990,861	1,194,124
	20 - 49	65	2,091	6,650,283	1,786,773
	50 - 99	15	974	4,800,291	1,303,763
	100 - 199	15	2,259	12,592,979	5,365,682
	200 - 499	5	1,503	8,809,473	1,630,971
	500 workers or more	-	-	-	-
355	Manufacture of rubber products	146	31,757	43,555,966	14,810,231
	5 - 9	38	258	226,824	82,570
	10 - 19	34	455	435,432	175,484
	20 - 49	37	1,070	1,249,242	485,300
	50 - 99	10	653	3,833,328	1,402,694
	100 - 199	7	1,114	728,085	262,143
	200 - 499	6	1,558	1,646,290	728,825
	500 workers or more	14	26,648	35,436,765	11,663,215
356	Manufacture of plas- tic products not elsewhere classified	146	8,967	15,503,502	5,975,238
	5 - 9	55	377	199,257	94,026
	10 - 19	36	495	288,565	125,246
	20 - 49	34	1,051	1,553,906	552,608
	50 - 99	6	357	223,452	142,060
	100 - 199	7	828	869,039	455,652
	200 - 499	1	240	-	-
	500 workers or more	7	5,619	12,368,283	4,605,646

(continued)

Table A-2 (continued)

ISIC	Subgroup and Size	No. of Establish- ments	No. of Workers	Gross Output (000 Won)	Value Added (000 Won)
36	MANUFACTURE OF NON-METALLIC MINERAL PRODUCTS, EXCEPT PRODUCTS OF PETROLEUM AND COAL	2,221	48,406	79,133,916	41,403,358
	5 - 9 workers	1,565	9,616	3,865,114	2,074,315
	10 - 19	746	4,435	2,135,377	1,138,475
	20 - 49	64	5,016	3,062,911	1,575,019
	50 - 99	72	5,029	15,088,429	10,998,414
	100 - 199	31	4,260	6,385,507	2,768,141
	200 - 499	31	10,288	17,580,156	7,085,070
	500 workers or more	12	9,782	30,966,426	15,763,924
361	Manufacture of pottery, china, and earthenware	332	5,892	2,240,936	1,289,880
	5 - 9	202	1,321	418,123	253,186
	10 - 19	79	1,026	383,622	215,922
	20 - 49	36	1,032	399,503	234,396
	50 - 99	7	554	261,060	143,262
	100 - 199	4	520	228,642	149,396
	200 - 499	3	388	377,383	207,553
	500 workers or more	1	551	172,603	86,063
362	Manufacture of glass and glass products	85	8,441	10,882,845	5,985,733
	5 - 9	7	47	23,727	13,284
	10 - 19	16	238	175,245	69,818
	20 - 49	31	1,030	462,385	235,535
	50 - 99	12	839	505,690	317,162
	100 - 199	8	969	414,084	216,291
	200 - 499	8	2,491	2,424,534	1,321,585
	500 workers or more	3	2,827	6,877,180	3,612,058
369	Manufacture of other nonmetallic mineral products	1,804	34,073	66,010,137	34,127,745
	5 - 9	1,356	8,248	3,423,264	1,807,843
	10 - 19	251	3,171	1,626,510	852,735
	20 - 49	97	2,954	2,201,023	1,105,088
	50 - 99	53	3,636	14,321,679	10,537,990
	100 - 199	19	2,751	5,742,781	2,402,454
	200 - 499	20	6,909	14,778,239	5,555,832
	500 workers or more	8	6,404	23,916,641	11,865,603

(continued)

Table A-2 (continued)

ISIC	Subgroup and Size	No. of Establish- ments	No. of Workers	Gross Output (000 Won)	Value Added (000 Won)
37	BASIC METAL INDUSTRIES	321	25,872	97,890,770	25,037,832
	5 - 9 workers	57	399	459,472	163,884
	10 - 19	100	1,434	1,217,077	494,753
	20 - 49	82	2,464	3,216,937	965,938
	50 - 99	36	2,525	5,470,172	2,234,161
	100 - 199	13	1,673	3,193,514	850,843
	200 - 499	22	6,995	21,267,472	7,406,277
	500 workers or more	11	10,382	63,066,126	12,921,976
371	Iron and steel basic industries	233	20,404	81,407,542	20,202,169
	5 - 9	39	260	286,356	113,726
	10 - 19	68	990	790,454	330,333
	20 - 49	64	1,902	2,258,003	753,705
	50 - 99	26	1,766	4,523,761	1,954,902
	100 - 199	11	1,465	3,125,256	797,479
	200 - 499	16	5,087	14,886,188	4,817,550
	500 workers or more	9	8,534	55,537,524	11,434,460
372	Nonferrous metal basic industries	88	5,468	16,483,228	4,835,663
	5 - 9	18	139	173,116	50,158
	10 - 19	32	444	426,623	164,414
	20 - 49	18	562	558,934	212,233
	50 - 99	10	759	946,411	272,259
	100 - 199	2	208	68,258	53,364
	200 - 499	6	1,908	6,381,284	2,588,727
	500 workers or more	2	1,448	7,528,602	1,487,508
38	MANUFACTURE OF FABRICATED METAL PRODUCTS, MACHINERY, AND EQUIPMENT	3,719	144,362	199,469,136	83,996,369
	5 - 9	1,527	9,891	5,808,677	2,929,356
	10 - 19	1,017	13,897	9,314,495	4,417,814
	20 - 49	718	21,780	17,700,929	8,407,261
	50 - 99	239	16,177	17,908,807	7,644,007
	100 - 199	104	14,415	17,579,957	7,658,808
	200 - 499	70	21,970	27,389,439	11,443,318
	500 workers or more	44	46,228	103,766,832	41,495,825

(continued)

Table A-2 (continued)

ISIC	Subgroup and Size	No. of Establishments	No. of Workers	Gross Output (000 Won)	Value Added (000 Won)
381	Manufacture of fabricated metal products, except machinery and equipment	1,332	38,164	34,210,199	14,957,510
	5 - 9 workers	659	4,206	2,205,647	1,090,665
	10 - 19	349	4,681	2,869,082	1,260,028
	20 - 49	210	6,376	5,044,232	2,131,493
	50 - 99	59	4,090	4,202,489	1,721,842
	100 - 199	28	3,780	6,780,275	2,832,415
	200 - 499	18	5,247	6,367,050	2,298,155
	500 workers or more	9	9,797	6,741,424	3,622,912
382	Manufacture of machinery, except electrical	941	21,004	22,932,975	9,588,201
	5 - 9	420	2,780	1,595,802	825,265
	10 - 19	293	3,923	2,770,971	1,194,983
	20 - 49	151	4,372	3,949,059	1,696,146
	50 - 99	48	3,351	5,011,456	1,896,600
	100 - 199	18	2,383	3,020,547	1,077,836
	200 - 499	9	2,465	3,511,562	1,735,793
	500 workers or more	2	1,730	3,073,578	1,161,578
383	Manufacture of electrical machinery apparatus, appliances, and supplies	451	42,172	61,897,715	27,608,604
	5 - 9	117	794	581,282	232,420
	10 - 19	101	1,462	1,155,240	571,731
	20 - 49	110	3,492	3,412,517	1,670,035
	50 - 99	49	3,240	3,534,409	1,515,060
	100 - 199	32	4,553	5,050,929	2,402,082
	200 - 499	23	7,720	10,924,972	4,241,935
	500 workers or more	19	20,851	37,512,356	16,975,340
384	Manufacture of transport equipment	890	37,769	75,306,227	29,810,365
	5 - 9	306	1,945	1,055,104	582,521
	10 - 19	240	3,351	2,265,955	1,253,756
	20 - 49	224	6,830	4,809,271	2,686,010
	50 - 99	71	4,646	3,720,149	2,048,215
	100 - 199	20	2,869	2,255,260	1,119,767
	200 - 499	16	5,133	5,252,665	2,619,229
	500 workers or more	13	12,995	55,947,823	19,500,867

(continued)

Table A-2 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Gross Output (000 Won)</u>	<u>Value Added (000 Won)</u>
385	Manufacture of profes- sional and scientific and measuring and con- trolling equipment, not elsewhere classified, and of photographic and optical goods	105	5,250	5,122,020	2,031,689
	5 - 9 workers	23	166	450,832	198,485
	10 - 19	34	480	253,247	137,316
	20 - 49	23	714	485,850	223,577
	50 - 99	12	850	1,440,304	462,290
	100 - 199	6	830	466,946	226,708
	200 - 499	4	1,345	1,533,190	548,205
	500 workers or more	1	865	491,651	235,108
39	OTHER MANUFACTURING INDUSTRIES	556	42,595	31,331,636	16,177,098
	5 - 9	197	1,301	999,172	470,466
	10 - 19	139	1,884	956,121	444,247
	20 - 49	90	2,836	2,143,339	940,608
	50 - 99	35	2,418	1,717,323	676,330
	100 - 199	43	6,073	9,930,631	1,861,006
	200 - 499	34	9,336	6,501,979	3,789,628
	500 workers or more	18	18,747	23,083,071	8,030,813

Source: Republic of Korea Year Book - 1972.

Section B
BASE LINE DATA: SEOUL AREA

Table B-1. Land Area and Population by Dong, Yeong Deung Po-Gu

Table B-2. Basic Manufacturing Data, Yeong Deung Po, 1971

Table B-1
LAND AREA AND POPULATION BY DONG, YEONG DEUNG PO-GU

<u>Dong</u>	<u>Area</u> <u>(in sq. km.)</u>	<u>Population</u>
Yeong Deung Po-Gu	208.00	1,314,318
Noryangjin 1 Dong	0.541	20,872
Noryangjin 2 Dong	0.541	21,815
Sangdo 1 Dong	2.203	33,820
Sangdo 2 Dong	1.827	30,053
Sangdo 3 Dong	2.136	24,032
Bongcheon 1 Dong	1.580	33,001
Bongcheon 2 Dong	1.880	38,863
Bongcheon 3 Dong	1.540	34,468
Bongcheon 4 Dong	2.570	20,774
Bon Dong	0.752	26,375
Heugseog 1 Dong	0.795	21,968
Heugseog 2 Dong	2.772	23,348
Heugseog 3 Dong	0.361	17,673
Sadang 1 Dong	10.700	18,990
Sadang 2 Dong	1.960	45,545
Jamweon Dong	6.820	5,935
Seochon Dong	6.020	5,242
Ryangjae Dong	15.760	5,547
Singil 1 Dong	1.527	26,140
Singil 2 Dong	0.370	16,732
Singil 3 Dong	1.134	29,495
Singil 4 Dong	0.387	21,735
Daebang 1 Dong	1.500	26,416
Daebang 2 Dong	1.047	24,393
Sindaebang Dong	0.890	23,035
Guro 1 Dong	5.020	41,543
Guro 2 Dong	0.981	40,044
Guro 3 Dong	0.260	30,223
Sindorim Dong	3.689	24,915
Garibong Dong	8.990	30,592
Siheung 1 Dong	3.251	16,251
Siheung 2 Dong	3.539	34,652
Sinrim 1 Dong	4.500	25,433
Sinrim 2 Dong	7.500	33,889
Sinrim 3 Dong	6.250	24,018
Gocheog Dong	3.770	21,530

(continued)

Table B-1 (continued)

<u>Dong</u>	<u>Area</u> <u>(in sq. km.)</u>	<u>Population</u>
Gaebong Dong	4.330	9,850
Oryu Dong	9.280	30,413
Yeong Deung Po 1 Dong	0.728	41,199
Yeong Deung Po 2 Dong	0.770	17,155
Yeong Deung Po 3 Dong	8.681	16,989
Dangsan 1 Dong	1.156	24,763
Dangsan 2 Dong	1.360	18,442
Dorim 1 Dong	0.191	14,315
Dorim 2 Dong	0.441	15,632
Munjae 1 Dong	0.973	16,274
Munjae 2 Dong	0.718	15,458
Yangpyeong 1 Dong	0.982	19,246
Yangpyeong 2 Dong	2.790	27,182
Yeomchang Dong	9.610	40,658
Sinieong Dong	5.080	31,217
Hwagog 1 Dong	5.280	15,575
Hwagog 2 Dong	2.840	12,703
Gayang Dong	5.080	4,589
Balsan Dong	6.500	5,641
Gonghang Dong	5.790	15,874
Banghwa Dong	11.810	24,457
Gwahae Dong	8.250	4,239

Source: Statistical Year Book, City of Seoul, 1972.

Table R-2

BASIC MANUFACTURING DATA, YEONG DEUNG PO, 1971

ISIC*	Subgroup and Size	No. of Establishments	No. of Workers	Monthly Average Income	Gross Output (000 Won)	Value Added (000 Won)
3	MANUFACTURING	846	41,156			
	5 - 9 workers	131	977			
	10 - 19	191	2,779			
	20 - 49	239	7,727			
	50 - 99	168	12,276			
	100 - 199	117	17,397			
	200 and up	-	-			
31	MANUFACTURE OF FOOD, BEVERAGES, AND TOBACCO	34	1,384	20,000		
	5 - 9	8	60			
	10 - 19	10	141			
	20 - 49	7	238			
	50 - 99	5	327			
	100 - 199	4	618			
	200 and up	-	-			
311	Food manufacturing	24	988	20,000		
	5 - 9	6	48			
	10 - 19	9	131			
	20 - 49	4	119			
	50 - 99	1	72			
	100 - 199	4	518			
	200 and up	-	-			

* International Standard Industrial Classification

(continued)

Table B-2 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establishments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>	<u>Gross Output (000 Won)</u>	<u>Value Added (000 Won)</u>
313	Beverage industries	11	396	20,000		
	5 - 9 workers	2	12			
	10 - 19	1	10			
	20 - 49	3	119			
	50 - 99	5	255			
	100 and up	-	-			
32	TEXTILE, WEARING APPAREL, AND LEATHER INDUSTRIES	123	8,634	20,340		3,625.2
	5 - 9	18	134			
	10 - 19	15	206			
	20 - 49	27	929			
	50 - 99	26	1,961			
	100 - 199	37	5,404			
	200 and up	-	-			
321	Manufacture of textiles	102	6,876	35,000		1,500.0
	5 - 9	13	99			
	10 - 19	14	191			
	20 - 49	27	929			
	50 - 99	20	1,517			
	100 - 199	28	4,140			
	200 and up	-	-			

(continued)

Table B-2 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>	<u>Gross Output (000 Won)</u>	<u>Value Added (000 Won)</u>
323	Manufacture of leather and products of leather, leather substitutes, and fur, except footwear and wearing apparel	5	378	11,500		5,750.0
	5 - 9 workers	2	14			
	10 - 19	-	-			
	20 - 49	-	-			
	50 - 99	-	-			
	100 - 199	3	364			
	200 and up	-	-			
33	MANUFACTURE OF WOOD AND WOOD PRODUCTS, INCLUDING FURNITURE	21	724	16,500		
	5 - 9	3	21			
	10 - 19	3	39			
	20 - 49	10	295			
	50 - 99	5	369			
	100 and up	-	-			
331	Manufacture of wood and cork products, except furniture	13	403	16,000		
	5 - 9	2	14			
	10 - 19	2	25			
	20 - 49	7	229			
	50 - 99	2	135			
	100 and up	-	-			

(continued)

Table B-2 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>	<u>Gross Output (000 Won)</u>	<u>Value Added (000 Won)</u>
332	Manufacture of furniture and fixtures, except primarily of metal	10	321	16,000		
	5 - 9 workers	1	7			
	10 - 19	1	14			
	20 - 49	3	66			
	50 - 99	5	234			
	100 and up	-	-			
34	MANUFACTURE OF PAPER AND PAPER PRODUCTS, PRINTING AND PUBLISHING	47	2,310	20,760	1,600.0	
	5 - 9	7	54			
	10 - 19	7	104			
	20 - 49	17	550			
	50 - 99	12	901			
	100 - 199	4	701			
	200 and up	-	-			
341	Manufacture of paper and paper products	32	1,354	18,000	1,600.0	
	5 - 9	4	34			
	10 - 19	6	88			
	20 - 49	14	469			
	50 - 99	6	434			
	100 - 199	2	329			
	200 and up	-	-			

(continued)

Table B-2 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>	<u>Gross Output (000 Won)</u>	<u>Value Added (000 Won)</u>
342	Printing, publishing, and allied industries	15	956	23,500		
	5 - 9 workers	3	20			
	10 - 19	1	16			
	20 - 49	3	81			
	50 - 99	6	467			
	100 - 199	2	372			
	200 and up	-	-			
35	MANUFACTURE OF CHEMICALS AND CHEMICAL, PETROLEUM, COAL, RUBBER, AND PLASTIC PRODUCTS	144	5,435	21,760	1,417.6	
	5 - 9	34	235			
	10 - 19	38	543			
	20 - 49	39	1,225			
	50 - 99	20	1,556			
	100 - 199	13	1,876			
	200 and up	-	-			
351	Manufacture of industrial chemicals.	44	1,477	22,020		2,250.0
	5 - 9	7	51			
	10 - 19	12	179			
	20 - 49	15	459			
	50 - 99	9	684			
	100 - 199	1	104			
	200 and up	-	-			

(continued)

Table B-2 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>	<u>Gross Output (000 Won)</u>	<u>Value Added (000 Won)</u>
352	Manufacture of other chemical products	66	2,717	21,020		1,000.0
	5 - 9 workers	18	119			
	10 - 19	14	195			
	20 - 49	20	640			
	50 - 99	5	392			
	100 - 199	9	1,371			
	200 and up	-	-			
353	Petroleum refineries	3	24			
	5 - 9	2	10			
	10 - 19	1	14			
	20 and up	-	-			
354	Manufacture of miscel- laneous products of petroleum and coal	4	216			
	5 - 9	-	-			
	10 - 19	1	15			
	20 - 49	1	25			
	50 - 99	2	176			
	100 and up	-	-			
355	Manufacture of rubber products	12	264	20,000		1,500.0
	5 - 9	5	39			
	10 - 19	4	55			
	20 - 49	2	57			
	50 - 99	-	-			
	100 - 199	1	113			
	200 and up	-	-			

(continued)

Table B-2 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>	<u>Gross Output (000 Won)</u>	<u>Value Added (000 Won)</u>
356	Manufacture of plastic products not elsewhere classified	15	737	24,000		1,000.0
	5 - 9 workers	2	16			
	10 - 19	6	85			
	20 - 49	1	44			
	50 - 99	4	304			
	100 - 199	2	288			
	200 and up	-	-			
36	MANUFACTURE OF NON-METALLIC MINERAL PRODUCTS, EXCEPT PRODUCTS OF PETROLEUM AND COAL	39	2,144	16,000		
	5 - 9 workers	1	7			
	10 - 19	10	145			
	20 - 49	13	437			
	50 - 99	8	577			
	100 - 199	7	978			
	200 and up	-	-			
361	Manufacture of pottery, china, and earthenware	2	164	16,000		
	5 - 9	-	-			
	10 - 19	-	-			
	20 - 49	-	-			
	50 - 99	1	54			
	100 - 199	1	110			
	200 and up	-	-			

(continued)

Table B-2 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>	<u>Gross Output (000 Won)</u>	<u>Value Added (000 Won)</u>
362	Manufacture of glass and glass products	13	1,169			
	5 - 9 workers	-	-			
	10 - 19	-	-			
	20 - 49	5	159			
	50 - 99	2	142			
	100 - 199	6	868			
	200 and up	-	-			
369	Manufacture of other nonmetallic metal products	24	811			
	5 - 9	1	7			
	10 - 19	10	145			
	20 - 49	8	278			
	50 - 99	5	381			
	100 and up	-	-			
37	BASIC METAL INDUSTRIES	55	2,376	25,020		
	5 - 9 workers	9	69			
	10 - 19	15	205			
	20 - 49	14	423			
	50 - 99	13	1,008			
	100 - 199	4	671			
	200 and up	-	-			
371	Iron and steel basic industries	30	1,379	50,000		
	5 - 9	6	48			
	10 - 19	9	118			
	20 - 49	6	194			

(continued)

Table B-2 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>	<u>Gross Output (000 Won)</u>	<u>Value Added (000 Won)</u>
371	Iron and steel basic industries (continued)					
	50 - 99 workers	5	348			
	100 - 199	4	671			
	200 and up	-				
372	Nonferrous metal basic industries	25	997	17,760		
	5 - 9	3	21			
	10 - 19	6	87			
	20 - 49	8	229			
	50 - 99	8	660			
	100 and up	-				
38	MANUFACTURE OF FABRICATED METAL PRODUCTS, MACHINERY, AND EQUIPMENT	317	13,874	24,480		8,006.8
	5 - 9	44	340			
	10 - 19	86	1,295			
	20 - 49	94	3,305			
	50 - 99	62	4,460			
	100 - 199	31	4,474			
	200 and up	-				
381	Manufacture of fabricated metal products, except machinery and equipment	28	1,084	23,560		12,540.2
	5 - 9	2	18			
	10 - 19	11	142			

(continued)

Table B-2 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establishments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>	<u>Gross Output (000 Won)</u>	<u>Value Added (000 Won)</u>
381	Manufacture of fabricated metal products, except machinery and equipment (continued)					
	20 - 49 workers	7	210			
	50 - 99	6	425			
	100 - 199	2	289			
	200 and up	-	-			
382	Manufacture of machinery, except electrical	172	6,019	29,160		
	5 - 9	37	286			
	10 - 19	43	638			
	20 - 49	55	1,712			
	50 - 99	26	1,802			
	100 - 199	11	1,581			
	200 and up	-	-			
383	Manufacture of electrical machinery apparatus, appliances, and supplies	63	3,344	20,160		473.2
	5 - 9	4	27			
	10 - 19	15	274			
	20 - 49	21	763			
	50 - 99	15	1,113			
	100 - 199	8	1,167			
	200 and up	-	-			

(continued)

Table B-2 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>	<u>Gross Output (000 Won)</u>	<u>Value Added (000 Won)</u>
384	Manufacture of trans- port equipment	38	2,013	17,500		
	5 - 9 workers	1	9			
	10 - 19	13	177			
	20 - 49	8	258			
	50 - 99	12	917			
	100 - 199	4	652			
	200 and up	-				
385	Manufacture of profes- sional and scientific and measuring and con- trolling equipment, not elsewhere classified, and of photographic and optical goods	16	1,144	32,000		
	5 - 9 workers	-	-			
	10 - 19	4	64			
	20 - 49	3	92			
	50 - 99	3	203			
	100 - 199	6	785			
	200 and up	-	-			
39	OTHER MANUFACTURING INDUSTRIES	66	4,545	17,500		
	5 - 9	7	57			
	10 - 19	7	101			
	20 - 49	18	595			
	50 - 99	17	1,117			
	100 - 199	17	2,675			
	200 and up	-	-			

Source: Chung Nam Statistical Year Book, 1972.

Section C
BASE LINE DATA: TAEJON AREA

- Table C-1. Land Area and Population by District (Offices of Taejon City)
- Table C-2. Land Area and Population of Daeduck County
- Table C-3. Land Area and Population of Yongi County
- Table C-4. Basic Manufacturing Data, Taejon Area, 1971

Table C-1
LAND AREA AND POPULATION BY DISTRICT
(OFFICES OF TAEJON CITY)

<u>District-Office</u>	<u>Area</u> <u>(in sq. km.)</u>	<u>Population</u>
Eastern District	15.71	106,691
Northern District	13.58	91,028
Central District	12.81	141,166
Western District	<u>46.28</u>	<u>113,017</u>
Total	88.38	451,902

Source: Chung Nam Statistical Year Book, 1972.

Table C-2
LAND AREA AND POPULATION OF DAEDUCK COUNTY

<u>Town</u>	<u>Area</u> <u>(in sq. km.)</u>	<u>Population</u>
Yu Seong Eup	41.13	21,727
San Nae Myon	82.52	11,602
Dong Myon	62.65	10,922
Hoe Deog Myon	18.29	8,850
Book Myon	43.47	23,213
Ku Chug Myon	44.34	10,736
Tan Dong Myon	42.98	10,401
Chin Kap Myon	52.45	12,366
Ki Seong Myon	<u>67.81</u>	<u>15,060</u>
Total	455.64	124,877

Source: Chung Nam Statistical Year Book, 1972.

Table C-3
LAND AREA AND POPULATION OF YONGI COUNTY

<u>Town</u>	<u>Area</u> <u>(in sq. km.)</u>	<u>Population</u>
Jochiweon Eup	13.4	27,894
Dong Myon	30.5	10,326
Seo Myon	52.4	12,910
Nam Myon	52.0	13,404
Geumnan Myon	79.6	18,126
Jeoneui Myon	49.1	12,544
Jeondong Myon	<u>79.8</u>	<u>19,377</u>
Total	356.9	114,581

Source: Yongi County Statistical Year Book.

Table C-4
BASIC MANUFACTURING DATA, TAEJON AREA, 1971

<u>ISIC*</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>
3	MANUFACTURING	381	9,193	
	5 - 9 workers	55	398	
	10 - 19	201	2,649	
	20 - 49	77	2,543	
	50 - 99	33	1,705	
	100 - 199	15	1,898	
	200 and up	-	-	
31	MANUFACTURE OF FOOD, BEVERAGES, AND TOBACCO	32	544	
	5 - 9	-	-	
	10 - 19	30	344	
	20 - 49	1	81	
	50 - 99	1	119	
	100 and up	-	-	
32	TEXTILE, WEARING AP- PAREL, AND LEATHER INDUSTRIES	93	2,271	12,500
	5 - 9	5	40	
	10 - 19	60	765	
	20 - 49	15	455	
	50 - 99	10	641	
	100 - 199	3	370	
	200 and up	-	-	
321	Manufacture of textiles	76	1,888	12,500
	5 - 9	5	40	
	10 - 19	48	610	
	20 - 49	11	347	
	50 - 99	10	641	
	100 - 199	2	250	
	200 and up	-	-	

* International Standard Industrial Classification

(continued)

Table C-4 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>
3213	Knitting mills	12	196	12,500
	5 - 9 workers	-	-	
	10 - 19	9	108	
	20 - 49	3	88	
	50 and up	-	-	
3219	Manufacture of Silk	3	153	12,500
	5 - 9	-	-	
	10 - 19	2	33	
	20 - 49	-	-	
	50 - 99	-	-	
	100 - 199	1	120	
	200 and up	-	-	
323	Manufacture of leather and leather products, leather substitutes, and fur, except foot- wear and wearing apparel	2	34	15,000
	5 - 9	-	-	
	10 - 19	1	14	
	20 - 49	1	20	
	50 and up	-	-	
341	Manufacture of paper and paper products	16	617	16,000
	5 - 9	5	48	
	10 - 19	3	12	
	20 - 49	6	2	
	50 - 99	1	0	
	100 - 199	1	5	
	200 and up	-	-	
351	Manufacture of indus- trial chemicals	28	7	15,000
	5 - 9	11	0	
	10 - 19	13	6	
	20 - 49	4	1	
	50 and up	-	-	

(continued)

Table C-4 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish-ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>
352	Manufacture of other chemical products	12	270	15,000
	5 - 9 workers	2	10	
	10 - 19	5	63	
	20 - 49	4	127	
	50 - 99	1	70	
	100 and up	-	-	
355	Manufacture of rubber products	6	185	12,000
	5 - 9	1	6	
	10 - 19	2	22	
	20 - 49	2	57	
	50 - 99	-	-	
	100 - 199	1	100	
	200 and up	-	-	
361	Manufacture of pottery, china, and earthenware	11	216	17,000
	5 - 9	1	5	
	10 - 19	6	75	
	20 - 49	3	76	
	50 - 99	1	60	
	100 and up	-	-	
37	BASIC METAL INDUSTRIES	1	32	15,000
	5 - 9	-	-	
	10 - 19	-	-	
	20 - 49	1	32	
	50 and up	-	-	
38	MANUFACTURE OF FABRICATED METAL PRODUCTS, MACHINERY, AND EQUIPMENT	140	2,895	12,500
	5 - 9	29	184	
	10 - 19	65	804	
	20 - 49	29	947	
	50 - 99	11	194	
	100 - 199	6	766	
	200 and up	-	-	

(continued)

Table C-4 (continued)

<u>ISIC</u>	<u>Subgroup and Size</u>	<u>No. of Establish- ments</u>	<u>No. of Workers</u>	<u>Monthly Average Income</u>
39	OTHER MANUFACTURING INDUSTRIES	42	1,696	15,000
	5 - 9 workers	1	5	
	10 - 19	17	238	
	20 - 49	12	395	
	50 - 99	8	551	
	100 - 199	4	507	
	200 and up	-	-	

Source: Chung Nam Statistical Year Book, 1972.